

DERWENT-ACC-NO: 1991-147108

DERWENT-WEEK: 199120

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TITLE: Borehole walls roughness measurer - has dielectric rod  
fitted in casing with diametric clearance with peripheral  
longitudinal channels for movable contact balls

INVENTOR: MONAKHOV, V M

PATENT-ASSIGNEE: BOREHOLE STRENGTHEN[BORER]

PRIORITY-DATA: 1988SU-4463335 (July 20, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1574804 A	June 30, 1990	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
SU 1574804A	N/A	1988SU-4463335	July 20, 1988

INT-CL (IPC): E21B047/08

ABSTRACTED-PUB-NO: SU 1574804A

BASIC-ABSTRACT:

The appts. has arched contact springs (2), their lower ends secured to casing (1) and upper ones to movable on the latter ring (4) with permanent circular magnet (3). A rod (5) of dielectric dimagnetic material, clearance-fit in the housing, has on its circumference equally spaced longitudinal channels (6) for metallic balls (7), serving as movable contacts. The channels are covered by differentially wound coil (8) its ends connected to terminals of D/C source (9). A recording unit (10) is connected into the circuit.

Change of profile of the hole causes change of radius of the springs (2) causing the ring (4) with magnet (3) to move up and down the casing (1). The circular magnet (3) holds the contact balls (7) in one plane and presses them against the coil (8). Movement of the balls (7) affects resistance of the coil (8) and the change is recorded by the unit (10). The differential winding of the coil (8) excludes formation of secondary magnetic field and allows to route the coil's ends upwards, which e facilitates servicing.

ADVANTAGE - Reliable in boreholes working at high temp. Bul.24/30.6.90

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: BOREHOLE WALL ROUGH MEASURE DIELECTRIC ROD FIT CASING  
DIAMETER

CLEARANCE PERIPHERAL LONGITUDE CHANNEL MOVE CONTACT BALL

DERWENT-CLASS: H01 Q49 S02 X25

CPI-CODES: H01-B03B2;

EPI-CODES: S02-A02X; X25-E02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-063890

Non-CPI Secondary Accession Numbers: N1991-112770

